

Tao Song

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

3,312
citations

147566

31
h-index

168136

53
g-index

117
all docs

117
docs citations

117
times ranked

1240
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | KG-DTI: a knowledge graph based deep learning method for drug-target interaction predictions and Alzheimer's disease drug repositions. <i>Applied Intelligence</i> , 2022, 52, 846-857. | 3.3 | 26 |
| 2 | Freestanding silicon nanowires mesh for efficient electricity generation from evaporation-induced water capillary flow. <i>Nano Energy</i> , 2022, 94, 106917. | 8.2 | 28 |
| 3 | Simulating Tropical Cyclone Passive Microwave Rainfall Imagery Using Infrared Imagery via Generative Adversarial Networks. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5. | 1.4 | 4 |
| 4 | Mesh2Measure: A Novel Body Dimensions Measurement Based on 3D Human Model. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2022, , 80-99. | 0.2 | 2 |
| 5 | IMGG: Integrating Multiple Single-Cell Datasets through Connected Graphs and Generative Adversarial Networks. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2082. | 1.8 | 8 |
| 6 | DeepFusion: A deep learning based multi-scale feature fusion method for predicting drug-target interactions. <i>Methods</i> , 2022, 204, 269-277. | 1.9 | 33 |
| 7 | ATDNNS: An adaptive time-frequency decomposition neural network-based system for tropical cyclone wave height real-time forecasting. <i>Future Generation Computer Systems</i> , 2022, 133, 297-306. | 4.9 | 15 |
| 8 | AMDE: a novel attention-mechanism-based multidimensional feature encoder for drug-drug interaction prediction. <i>Briefings in Bioinformatics</i> , 2022, 23, . | 3.2 | 40 |
| 9 | A Hygroscopic Janus Heterojunction for Continuous Moisture-Triggered Electricity Generators. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19569-19578. | 4.0 | 15 |
| 10 | Multi-TransDTI: Transformer for Drug-Target Interaction Prediction Based on Simple Universal Dictionaries with Multi-View Strategy. <i>Biomolecules</i> , 2022, 12, 644. | 1.8 | 11 |
| 11 | Inversion of Ocean Subsurface Temperature and Salinity Fields Based on Spatio-Temporal Correlation. <i>Remote Sensing</i> , 2022, 14, 2587. | 1.8 | 9 |
| 12 | Integrating hydrovoltaic device with triboelectric nanogenerator to achieve simultaneous energy harvesting from water droplet and vapor. <i>Nano Energy</i> , 2022, 100, 107495. | 8.2 | 15 |
| 13 | SDNN-PPI: self-attention with deep neural network effect on protein-protein interaction prediction. <i>BMC Genomics</i> , 2022, 23, . | 1.2 | 26 |
| 14 | <i>De novo</i> molecular design with deep molecular generative models for PPI inhibitors. <i>Briefings in Bioinformatics</i> , 2022, 23, . | 3.2 | 27 |
| 15 | Adaptive control of manipulator based on neural network. <i>Neural Computing and Applications</i> , 2021, 33, 4077-4085. | 3.2 | 23 |
| 16 | Intelligent human hand gesture recognition by local-global fusing quality-aware features. <i>Future Generation Computer Systems</i> , 2021, 115, 298-303. | 4.9 | 11 |
| 17 | CSCConv2d: A 2-D Structural Convolution Neural Network with a Channel and Spatial Attention Mechanism for Protein-Ligand Binding Affinity Prediction. <i>Biomolecules</i> , 2021, 11, 643. | 1.8 | 14 |
| 18 | Bioinspired Hierarchical Nanofabric Electrode for Silicon Hydrovoltaic Device with Record Power Output. <i>ACS Nano</i> , 2021, 15, 7472-7481. | 7.3 | 65 |

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|----|---|-----|-----------|
| 19 | NDFTC: A New Detection Framework of Tropical Cyclones from Meteorological Satellite Images with Deep Transfer Learning. Remote Sensing, 2021, 13, 1860. | 1.8 | 19 |
| 20 | Learning hierarchical face representation to enhance HCI among medical robots. Future Generation Computer Systems, 2021, 118, 180-186. | 4.9 | 1 |
| 21 | Neural-like P systems with plasmids. Information and Computation, 2021, 281, 104766. | 0.5 | 12 |
| 22 | Stable DNA Sequence Over Close-Ending and Pairing Sequences Constraint. Frontiers in Genetics, 2021, 12, 644484. | 1.1 | 7 |
| 23 | Application of deep learning technique to the sea surface height prediction in the South China Sea. Acta Oceanologica Sinica, 2021, 40, 68-76. | 0.4 | 10 |
| 24 | Electron-Selective Passivation Contacts for High-Efficiency Nanostructured Silicon Hydrovoltaic Devices. Advanced Materials Interfaces, 2021, 8, 2101213. | 1.9 | 13 |
| 25 | Forecasting tropical cyclones wave height using bidirectional gated recurrent unit. Ocean Engineering, 2021, 234, 108795. | 1.9 | 29 |
| 26 | Use Ensemble Learning to Estimate the Population and Assets Exposed to Tropical Cyclones. , 2021, , . | | 2 |
| 27 | Visual Prediction of Tropical Cyclones with Deep Convolutional Generative Adversarial Networks. , 2021, , . | | 3 |
| 28 | Cyclone Identify using Two-Branch Convolutional Neural Network from Global Forecasting System Analysis. , 2021, , . | | 4 |
| 29 | An improved YOLOv3 model for detecting location information of ovarian cancer from CT images. Intelligent Data Analysis, 2021, 25, 1565-1578. | 0.4 | 6 |
| 30 | Network-Based Approaches for Drug Repositioning. Molecular Informatics, 2021, , 2100200. | 1.4 | 8 |
| 31 | Unsupervised Machine Learning for Improved Delaunay Triangulation. Journal of Marine Science and Engineering, 2021, 9, 1398. | 1.2 | 3 |
| 32 | MMDA: Disease Analysis Model Based on Anthropometric Measurement. , 2021, , . | | 2 |
| 33 | On the Computational Power of Asynchronous Axon Membrane Systems. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 696-704. | 3.4 | 7 |
| 34 | A deep model method for recognizing activities of workers on offshore drilling platform by multistage convolutional pose machine. Journal of Loss Prevention in the Process Industries, 2020, 64, 104043. | 1.7 | 14 |
| 35 | A Novel Dual Path Gated Recurrent Unit Model for Sea Surface Salinity Prediction. Journal of Atmospheric and Oceanic Technology, 2020, 37, 317-325. | 0.5 | 30 |
| 36 | Identifying potential treatments of COVID-19 from Traditional Chinese Medicine (TCM) by using a data-driven approach. Journal of Ethnopharmacology, 2020, 258, 112932. | 2.0 | 98 |

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|----|--|-----|-----------|
| 37 | A Deep Learning Method With Merged LSTM Neural Networks for SSHA Prediction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2853-2860. | 2.3 | 26 |
| 38 | Constant Electricity Generation in Nanostructured Silicon by Evaporation-Driven Water Flow. Angewandte Chemie - International Edition, 2020, 59, 10619-10625. | 7.2 | 124 |
| 39 | Guest Editorial: Bio-Inspired Computing Models and Algorithms. IEEE Transactions on Nanobioscience, 2020, 19, 100-101. | 2.2 | 1 |
| 40 | Discriminative Correlation Filter for Long-Time Tracking. Computer Journal, 2020, 63, 460-468. | 1.5 | 4 |
| 41 | SE-OnionNet: A Convolution Neural Network for Protein-Ligand Binding Affinity Prediction. Frontiers in Genetics, 2020, 11, 607824. | 1.1 | 32 |
| 42 | Repositioning Molecules of Chinese Medicine to Targets of SARS-Cov-2 by Deep Learning Method. , 2020, , . | | 6 |
| 43 | LDCNN-DTI: A Novel Light Deep Convolutional Neural Network for Drug-Target Interaction Predictions. , 2020, , . | | 6 |
| 44 | A Spectral Rotation Method with Triplet Periodicity Property for Planted Motif Finding Problems. Combinatorial Chemistry and High Throughput Screening, 2020, 22, 683-693. | 0.6 | 3 |
| 45 | VGG16-T: A Novel Deep Convolutional Neural Network with Boosting to Identify Pathological Type of Lung Cancer in Early Stage by CT Images. International Journal of Computational Intelligence Systems, 2020, 13, 771. | 1.6 | 28 |
| 46 | A Real-Time Fire Detection Method from Video with Multifeature Fusion. Computational Intelligence and Neuroscience, 2019, 2019, 1-17. | 1.1 | 52 |
| 47 | An Improved Convolutional Network Architecture Based on Residual Modeling for Person Re-Identification in Edge Computing. IEEE Access, 2019, 7, 106748-106759. | 2.6 | 14 |
| 48 | Spiking Neural P Systems With Learning Functions. IEEE Transactions on Nanobioscience, 2019, 18, 176-190. | 2.2 | 85 |
| 49 | Server Consolidation Energy-Saving Algorithm Based on Resource Reservation and Resource Allocation Strategy. IEEE Access, 2019, 7, 171452-171460. | 2.6 | 9 |
| 50 | U-Next: A Novel Convolution Neural Network With an Aggregation U-Net Architecture for Gallstone Segmentation in CT Images. IEEE Access, 2019, 7, 166823-166832. | 2.6 | 26 |
| 51 | Double Layers Self-Organized Spiking Neural P Systems With Anti-Spikes for Fingerprint Recognition. IEEE Access, 2019, 7, 177562-177570. | 2.6 | 11 |
| 52 | A Parallel Image Skeletonizing Method Using Spiking Neural P Systems with Weights. Neural Processing Letters, 2019, 50, 1485-1502. | 2.0 | 72 |
| 53 | Spiking Neural P Systems With Colored Spikes. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 1106-1115. | 2.6 | 116 |
| 54 | Application of Amino-Functionalized Nanosilica in Improving the Thermal Stability of Acrylamide-Based Polymer for Enhanced Oil Recovery. Energy & Fuels, 2018, 32, 246-254. | 2.5 | 50 |

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|----|---|-----|-----------|
| 55 | A Parallel Bioinspired Framework for Numerical Calculations Using Enzymatic P System With an Enzymatic Environment. IEEE Access, 2018, 6, 65548-65556. | 2.6 | 14 |
| 56 | A Parallel Workflow Pattern Modeling Using Spiking Neural P Systems With Colored Spikes. IEEE Transactions on Nanobioscience, 2018, 17, 474-484. | 2.2 | 54 |
| 57 | Keypoint-based passive method for image manipulation detection. Cogent Engineering, 2018, 5, 1523346. | 1.1 | 5 |
| 58 | Small Universal Bacteria and Plasmid Computing Systems. Molecules, 2018, 23, 1307. | 1.7 | 14 |
| 59 | A time-free uniform solution to subset sum problem by tissue P systems with cell division. Mathematical Structures in Computer Science, 2017, 27, 17-32. | 0.5 | 30 |
| 60 | Highly Biocompatible Drug-Delivery Systems Based on DNA Nanotechnology. Journal of Biomedical Nanotechnology, 2017, 13, 747-757. | 0.5 | 14 |
| 61 | A programming triangular DNA origami for doxorubicin loading and delivering to target ovarian cancer cells. Oncotarget, 2017, . | 0.8 | 6 |
| 62 | Construction of DNA nanotubes with controllable diameters and patterns using hierarchical DNA sub-tiles. Nanoscale, 2016, 8, 14785-14792. | 2.8 | 43 |
| 63 | On the Computational Power of Spiking Neural P Systems with Self-Organization. Scientific Reports, 2016, 6, 27624. | 1.6 | 70 |
| 64 | Spiking Neural P Systems With White Hole Neurons. IEEE Transactions on Nanobioscience, 2016, 15, 666-673. | 2.2 | 66 |
| 65 | Design of logic gates using spiking neural P systems with homogeneous neurons and astrocytes-like control. Information Sciences, 2016, 372, 380-391. | 4.0 | 114 |
| 66 | NES-REBS: A novel nuclear export signal prediction method using regular expressions and biochemical properties. Journal of Bioinformatics and Computational Biology, 2016, 14, 1650013. | 0.3 | 1 |
| 67 | An Optimized Feedforward Decoupling PD Register Control Method of Roll-to-Roll Web Printing Systems. IEEE Transactions on Automation Science and Engineering, 2016, 13, 274-283. | 3.4 | 29 |
| 68 | Spiking neural P systems with request rules. Neurocomputing, 2016, 193, 193-200. | 3.5 | 109 |
| 69 | A normal form of spiking neural P systems with structural plasticity. International Journal of Swarm Intelligence, 2015, 1, 344. | 0.2 | 6 |
| 70 | <I>A Special Issue on</I> Bio-Inspired Computing: Theories and Applications. Journal of Computational and Theoretical Nanoscience, 2015, 12, 1101-1102. | 0.4 | 0 |
| 71 | A P_Lingua Based Simulator for P Systems with Symport/Antiport Rules. Fundamenta Informaticae, 2015, 139, 211-227. | 0.3 | 13 |
| 72 | A Novel Thermodynamic Model and Temperature Control Method of Laser Soldering Systems. Mathematical Problems in Engineering, 2015, 2015, 1-10. | 0.6 | 4 |

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|----|---|-----|-----------|
| 73 | A Novel Computational Method to Reduce Leaky Reaction in DNA Strand Displacement. <i>Journal of Analytical Methods in Chemistry</i> , 2015, 2015, 1-10. | 0.7 | 6 |
| 74 | A Universal Fast Colorimetric Method for DNA Signal Detection with DNA Strand Displacement and Gold Nanoparticles. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9. | 1.5 | 11 |
| 75 | On the Universality and Non-Universality of Spiking Neural P Systems With Rules on Synapses. <i>IEEE Transactions on Nanobioscience</i> , 2015, 14, 960-966. | 2.2 | 64 |
| 76 | Asynchronous Spiking Neural P Systems with Anti-Spikes. <i>Neural Processing Letters</i> , 2015, 42, 633-647. | 2.0 | 25 |
| 77 | Time-free solution to SAT problem by P systems with active membranes and standard cell division rules. <i>Natural Computing</i> , 2015, 14, 673-681. | 1.8 | 22 |
| 78 | Spiking Neural P Systems With Rules on Synapses Working in Maximum Spiking Strategy. <i>IEEE Transactions on Nanobioscience</i> , 2015, 14, 465-477. | 2.2 | 91 |
| 79 | Extending Simulation of Asynchronous Spiking Neural P Systems in Pâ€“Lingua. <i>Fundamenta Informaticae</i> , 2015, 136, 253-267. | 0.3 | 14 |
| 80 | Spiking neural P systems with structural plasticity. <i>Neural Computing and Applications</i> , 2015, 26, 1905-1917. | 3.2 | 93 |
| 81 | Spiking Neural P Systems With Rules on Synapses Working in Maximum Spikes Consumption Strategy. <i>IEEE Transactions on Nanobioscience</i> , 2015, 14, 38-44. | 2.2 | 78 |
| 82 | Size-controllable DNA nanoribbons assembled from three types of reusable brick single-strand DNA tiles. <i>Soft Matter</i> , 2015, 11, 8484-8492. | 1.2 | 18 |
| 83 | A novel membrane-inspired algorithm for optimizing solid waste transportation. <i>Optik</i> , 2015, 126, 3883-3888. | 1.4 | 12 |
| 84 | Asynchronous spiking neural P systems with rules on synapses. <i>Neurocomputing</i> , 2015, 151, 1439-1445. | 3.5 | 65 |
| 85 | Homogenous Spiking Neural P Systems with Inhibitory Synapses. <i>Neural Processing Letters</i> , 2015, 42, 199-214. | 2.0 | 40 |
| 86 | A Novel Bio-Sensor Based on DNA Strand Displacement. <i>PLoS ONE</i> , 2014, 9, e108856. | 1.1 | 56 |
| 87 | Spiking Neural P Systems with Thresholds. <i>Neural Computation</i> , 2014, 26, 1340-1361. | 1.3 | 113 |
| 88 | Spiking neural P systems with anti-spikes and without annihilating priority as number acceptors. <i>Journal of Systems Engineering and Electronics</i> , 2014, 25, 464-469. | 1.1 | 7 |
| 89 | Homogenous spiking neural P systems with anti-spikes. <i>Neural Computing and Applications</i> , 2014, 24, 1833-1841. | 3.2 | 29 |
| 90 | Time-free solution to SAT problem using P systems with active membranes. <i>Theoretical Computer Science</i> , 2014, 529, 61-68. | 0.5 | 47 |

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|-----|---|-----|-----------|
| 91 | Spiking neural P systems with rules on synapses. <i>Theoretical Computer Science</i> , 2014, 529, 82-95. | 0.5 | 121 |
| 92 | Disjointed Cycle Time Assignment for Min-Max Systems Using an Output Feedback. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014, 11, 772-775. | 0.4 | 0 |
| 93 | A Novel Approach to Identify Protein Coding Domains by Sampling Binary Profiles from Genome. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014, 11, 147-152. | 0.4 | 3 |
| 94 | A Bio-Inspired Algorithm for the Fleet Size and Mix Vehicle Routing Problem. <i>Journal of Computational and Theoretical Nanoscience</i> , 2014, 11, 2085-2090. | 0.4 | 1 |
| 95 | Solving Subset Sum Problems by Time-free Spiking Neural P Systems. <i>Applied Mathematics and Information Sciences</i> , 2014, 8, 327-332. | 0.7 | 19 |
| 96 | Solving Vertex Cover Problem by Tissue P Systems with Cell Division. <i>Applied Mathematics and Information Sciences</i> , 2014, 8, 333-337. | 0.7 | 10 |
| 97 | Parallel Solution to the Dominating Set Problem by Tile Assembly System. <i>Applied Mathematics and Information Sciences</i> , 2014, 8, 345-349. | 0.7 | 0 |
| 98 | Asynchronous spiking neural P systems with local synchronization. <i>Information Sciences</i> , 2013, 219, 197-207. | 4.0 | 163 |
| 99 | Normal Forms for Some Classes of Sequential Spiking Neural P Systems. <i>IEEE Transactions on Nanobioscience</i> , 2013, 12, 255-264. | 2.2 | 57 |
| 100 | Universality of sequential spiking neural P systems based on minimum spike number. <i>Theoretical Computer Science</i> , 2013, 499, 88-97. | 0.5 | 21 |
| 101 | Reversible spiking neural P systems. <i>Frontiers of Computer Science</i> , 2013, 7, 350-358. | 1.6 | 11 |
| 102 | A membrane-inspired algorithm with a memory mechanism for knapsack problems. <i>Journal of Zhejiang University: Science C</i> , 2013, 14, 612-622. | 0.7 | 7 |
| 103 | Spiking neural P systems with anti-spikes and without annihilating priority working in a 'flip-flop' way. <i>International Journal of Computing Science and Mathematics</i> , 2013, 4, 152. | 0.2 | 3 |
| 104 | Time-Free Solution to Hamilton Path Problems Using P Systems with Division. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-7. | 0.4 | 10 |
| 105 | Solving Vertex Cover Problem Using DNA Tile Assembly Model. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-7. | 0.4 | 3 |
| 106 | Homogeneous spiking neural P systems working in sequential mode induced by maximum spike number. <i>International Journal of Computer Mathematics</i> , 2013, 90, 831-844. | 1.0 | 12 |
| 107 | WormStep: An Improved Compact Graphical Representation of DNA Sequences Based on Worm Curve. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 189-193. | 0.4 | 2 |
| 108 | Detecting Motifs in DNA Sequences by Branching from Neighbors of Qualified Potential Motifs. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 2201-2206. | 0.4 | 4 |

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| 109 | Small Universal Spiking Neural P Systems with Anti-Spikes. Journal of Computational and Theoretical Nanoscience, 2013, 10, 999-1006. | 0.4 | 38 |
| 110 | MRPGA: Motif Detecting by Modified Random Projection Strategy and Genetic Algorithm. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1209-1214. | 0.4 | 8 |
| 111 | Analysis of Gene Logic Networks for Arabidopsis. Current Bioinformatics, 2013, 8, 244-252. | 0.7 | 1 |
| 112 | Normal Forms of Spiking Neural P Systems With Anti-Spikes. IEEE Transactions on Nanobioscience, 2012, 11, 352-359. | 2.2 | 69 |
| 113 | Performing Four Basic Arithmetic Operations With Spiking Neural P Systems. IEEE Transactions on Nanobioscience, 2012, 11, 366-374. | 2.2 | 57 |
| 114 | P Systems with 2D Picture Grammars. , 2011, , . | | 0 |
| 115 | Spiking Neural P Systems for Arithmetic Operations. , 2011, , . | | 3 |
| 116 | DNA Computing. International Journal of Nanotechnology and Molecular Computation, 2010, 2, 12-37. | 0.3 | 0 |
| 117 | Artificial intelligence technology based on deep learning in digestive endoscopy imaging diagnosis. Personal and Ubiquitous Computing, 0, , 1. | 1.9 | 1 |